

PASSION FOR DIGITAL PRINTING ,

Innovating in creativity, quality and sustainability



How do we bring creativity, quality and sustainability to state-of-the-art digital printing?

CREATING SUSTAINABLE SOLUTIONS

At Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable.

Archroma is committed to developing innovative products and processes that are safer for the consumer and for the environment. We strongly believe, based on our extensive experience in textile processing, that sustainability can generate innovation, performance and can even lead to cost reductions and added value for our customers. For this reason, our clear ambition is to offer our customers the best possible system solution in their textile segments.

Innovation is a core competence of Archroma, which ensures that our products and services meet future demands, foster future technologies and contribute to a more sustainable textile industry.

As a global leader in color and specialty chemicals with a trusted heritage, we offer bespoke product solution systems and innovations. We strive to be a reliable partner for textile mills as well as major retailers and brands for the whole textile chain – **from the first idea creation to the final article.**

Brand owners and retailers around the world are taking action to evaluate the environmental impact of textile treatment, dyeing and finishing processes in response to consumer concerns. We can help textile manufacturers with this. Our exclusive **ONE WAY Process Simulator** can be used to simulate and compare products and processes, and thus calculate the ecological and economical profile of the final end-product.



ABOUT US



From fiber to finish, Archroma plays a key role throughout the entire textile supply chain, with special system solutions for spinning, sizing, pretreatment, dyeing, printing and digital printing, as well as finishing.

Digital textile printing is the fastest growing segment within textile printing. Increasingly, more printing mills are making the transition from conventional to digital printing. More than 20 billion linear meters of printed textiles are produced every year; currently, only around five percent of these are made using digital printing techniques. However digital textile printing has an average growth of around 25% per year.

Archroma, a recognized global leader in integrated solutions for printing, is also investing in digital printing, bringing high innovation, creativity, quality and sustainability.

Together with our expertise, we bring economical benefits with wider design possibilities, opening new business opportunities for digital textile printers.

Flexibility on demand

At the very beginning of the textile chain, Archroma's spin finishes provide outstanding processing performance to all kinds of filaments and fibers. We combine our chemistry knowledge and yarn manufacturing experience to develop our high performance and innovative spin finishes and sizing systems, aimed at addressing the specific demands of our customers.

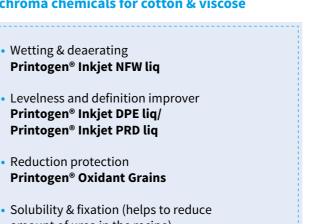
 Spin finish 	 Softners, lubricants
Afilan®	and antistatic agents
	Leomin®

PRETREATMENT

A heritage of performance

Pretreatment has always been a core competence in Archroma and our past heritage. We believe that a textile treatment process must be simple, robust and highly reliable. With Archroma's **pretreatment systems**, you will be able to achieve better print quality on fabric by inkjet printing.

Archroma chemicals for cotton & viscose



amount of urea in the recipe) Printogen[®] Enhancer BC liq

Competence Center for Digital Printing

Benefit from Archroma's digital printing expertise and networks for:

- Brand solution
- Innovative solutions for improved performance and sustainable production;
- New trends in the digital printing market;
- Collaboration network with market leaders in machinery manufacturers, digital printing producers, universities, textile industries, training centers and brands;
- Customer trainings and demos on Inkpresso® machines installed in each geographic region;
- State-of-the-art R&D labs for dyes purification and process developments.

The majority of Archroma's products are endorsed by some of the most important eco-standards.

bluesign[®]
 Oeko-Tex[®]
 GOTS
 ZDHC
 REACH
 EU Ecolabel
 C2C
 RSL
 MRSL

Archroma's sizing agents Additives Sizing agent **Arkofil**® Trefix®

Archroma chemicals for polyamide

 Wetting & deaerating Printogen[®] Inkjet NFW liq Synthetic thickener to adjust viscosity Lutexal[®] GP Eco p Anti-frosting (improves penetration) Lyogen® VN liq Levelness and definition improver Printogen[®] Inkjet[®] DPE liq

DIGITAL PRINTING ARCHROMA INKPRESSO[®] SYSTEM

Color creation flexibility, supports sustainable production, cost efficiency

Inkpresso® brings together benefits that were unattainable so far in inkjet printing: Production flexibility, no shelf-life problems, a larger color spectrum and the possibility of an individual coloristic variant.

Our Inkpresso[®] system is a paradigm shift; it allows you to manufacture your own inks, close to the printing machines, ensuring high stability and fresh Ink from highly purified dyes with no issues of shelf life.

The central component of the system is the Ink Formulation Unit (IFU), where each color is mixed in separate units. The IFU is designed for exclusive use with Archroma's Solar Reactive Dyes and Solar Compound. The manufacturing process is automatically managed. The powder dyes are dosed through a closed system which ensures that no dye powder is released into the air. Chemicals and water are automatically fed into the mixing unit, all managed by a very accurate dosing system to ensure an exact ink output delivered when the customer needs it.



This new concept brings economical benefits together with wider design possibilities, sustainability and opens new business opportunities for digital textile printers.

Create your color ink library by mixing the eight high-quality available color modules and preparing them on site and on demand.

Archroma's Solar[®] reactive dyes & compounds

es		

Solar [®] Brilliant yellow	
Solar [®] Orange	
Solar [®] Brilliant Red	

Solar[®] Black

Dye • Raw materials especially selected for inks using own technology; • Ultra purified and salt free dyestuffs based on most modern processes; Highly concentrated; • High solubility of ink & very good filtration properties; • Pure brilliant colors in powder form with high solubility; High fixation in the printing process; • The on-site ink concept enables Archroma to develop novel reactive inks with higher yield and brilliance. Solar[®] Magenta 2B Solar[®] Cyan Solar[®] Brilliant Blue Compounds • Specially designed and developed by Archroma as a carrier for dyes and water to optimize the ink for the following effects; Moisturizing effect; Runability in digital printer; • Designed to fit all major print heads (Epson, Kyocera, Konica Minolta, Fuji etc.) Solar[®] Compound

Archroma's reactive inks

For implementing the Inkpresso® s technology on purification and ma	
Inkpresso® Brilliant Yellow	Inkpresso® Magenta 2
Inkpresso® Orange	Inkpresso® Cyan
Inkpresso® Brilliant Red	Inkpresso® Brilliant B

Archroma's digital printing auxiliaries

Head cleaner

We provide the customer the most suitable head cleaner for
its manufacturing.

full color range of inks to pre-test Archroma

2B

Inkpresso[®] Black

Blue

preparing the digital printing machines before

DIGITAL PRINTING ARCHROMA FASTNESS LEVELS

Solar[®] dyes and Inkpresso[®]

FASTNESS LEVE On 20%	LS	Light Fastness ISO 105-B02	Water Fastness ISO 105-E01	Domestic Laundry ISO 105 C06/C2S	Home and Commercial Laundring AATCC 61 2°, 49°C	Alkaline Acid		Weather Fastness ISO 105 B04-653 (90h)	Dry Cleaning ISO 105-D01	Chlorine Water ISO 105-E03
Solar® Brillant Yellow		5-6	4-5	4	4	4-5	4-5	4	4	4
Solar® Orange		3-4	4-5	5	4-5	4-5	4	2	4	4-5
Solar® Brilliant Red		4-5	4	4	4	3-4	4	2	3-4	4-5
Solar® Magenta 2B		5-6	4	4	4	4-5	4	2	3-4	4-5
Solar® Brilliant Blue		4-5	4	4	4	3-4	3-4	4	4-5	1-2
Solar® Cyan		5-6	3-4	3	4-5	3-4	3-4	3	4-5	2
Solar® Black		5	4	4	4	4-5	4-5	2	4	2-3

The new Solar® range meets all the requirements of modern textile industry: GOTS*, OEKO-TEX and RSL, MRSL.



Washing-off process

Archroma washing-off systems will help to remove unfixed dye and chemicals from fabric and avoid back staining of dyestuff onto unprinted/white areas.

Archroma's washing-off agents





Archroma is a recognized expert in finishing solutions to fulfill the different market segment requirements.

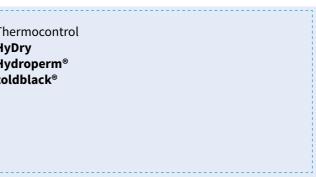
Archroma's finishing solutions

 Care effects 	 Protection 	• Th
Arkofix®	Smartrepel [®] Hydro	Hy
Ceralube®	Nuva [®] N	Hy
Ceraperm®	Sanitized [®]	co
Solusoft®	Pekoflam [®]	
Appretan®	Actigard®	
Ultraphor®	Rayosan®	
Leucophor®	-	

Discover more information in our 'Functional Finishing' brochure

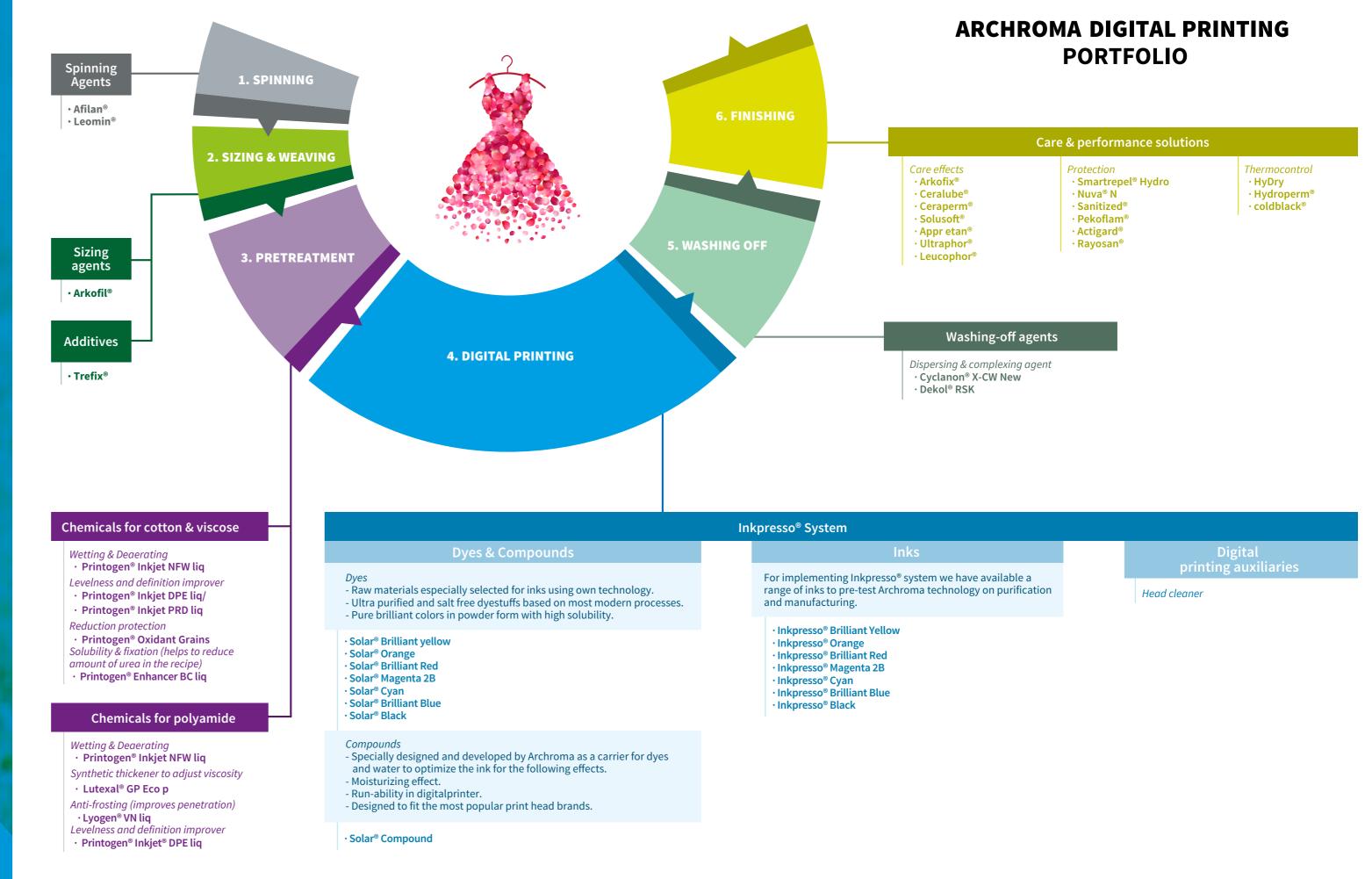






/ Check our latest updates at

www.digitalprinting.archroma.com



/ THE ARCHROMA WAY

Safe, efficient, enhanced.

As a global leader in color and specialty chemicals, we are committed to develop innovative systems and services to provide you with custom solutions that are:

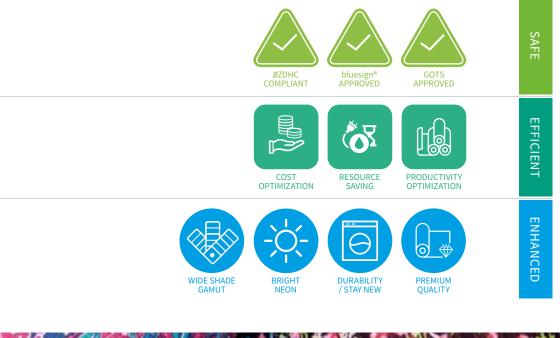
Safe – It's our nature to protect. Safe to use, safe to release and safe to wear.

Efficient – It's our nature to rethink sustainable manufacturing. Innovating application processes that minimize resources and maximize productivity.

Enhanced – It's our nature to add another level of value. Effects, functionality and aesthetics to give additional value, for a life enhanced.



Inkpresso[®] System







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